

Seq Listing CL1665.ST25.txt
SEQUENCE LISTING

<110> E.I. du Pont de Nemours and Co.
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Dam, Rudy
Hendrickson, Edwin R.
Perry, Michael P.
Jiang, Xueping'
Cui, Xiumin
Steenhoek, Larry Eugene

<120> Microparticle-Based Methods and Systems and Applications Thereof

<130> CL1665 US NA

<160> 17

<170> PatentIn version 3.2

<210> 1

<211> 516

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic FMD target

<400> 1

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cgagtccaac cctgggcctt tcttcttctc tgacgttagg tcaaattttt ccaagttggt	180
tgaaaccatc aaccagatgc aggaggacat gtcaacaaaa cacggaccgc actttaaccg	240
gttggtgtct gcatttgagg aactggccac cggagtgaag gctatcagga ccggtctcga	300
tgaggccaaa ccctggtaca agctcatcaa gctcttgagc cgctgtcat gtatggccgc	360
tgtagcagca cgggtcaaagg acccagtcct tgtggccatc atgctggctg acaccggcct	420
tgagattctg gacagtacct ttgtcgtgaa gaagatctcc gactcgctct ccagtctctt	480
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<210> 2

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide probe JBP

<400> 2

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<210> 3

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Modified oligonucleotide probe JBP S2SP3B

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<220>
 <221> modified_base
 <222> (1)..(1)
 <223> C6-S-S(Sp)2, where C6-S-S is 1-O-dimethoxytritylhexyl-disulfide,
 1-[(2-cyanoethyl)-N,N-diisopropyl]-phosphoramidite and Sp is the
 spacer 18-O-dimethoxytritylhexaethyleneglycol,
 1-[(2-cyanoethyl)-(N,N-diisopropyl)]-phosphoramidite

<220>
 <221> modified_base
 <222> (48)..(48)
 <223> Biotinylated

<400> 3
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<210> 4
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> oligonucleotide probe N-JBC

<220>
 <221> modified_base
 <222> (1)..(1)
 <223> amine group

<220>
 <221> modified_base
 <222> (48)..(48)
 <223> biotinylated

<400> 4
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<210> 5
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Fluorescein-labeled oligonucleotide target JBC-F

<220>
 <221> modified_base
 <222> (48)..(48)
 <223> Fluorescein labeled

<400> 5
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<210> 6
 <211> 49
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Fluorescein-labeled oligonucleotide target control Lac2-F

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<220>
<221> modified_base
<222> (49)..(49)
<223> Fluorescein labeled

<400> 6
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<210> 7
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Fluorescein-labeled oligonucleotide target JBP-F

<220>
<221> modified_base
<222> (48)..(48)
<223> Fluorescein labeled

<400> 7
tcaaccagat gcaggaggac atgtcaacaa aacacggacc cgacttaa 48

<210> 8
<211> 206
<212> DNA
<213> Artificial Sequence

<220>
<223> FMD PCR fragment JB

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ttggtgtctg catttgagga actggccacc ggagtgaagg ctatcaggac cggctctgat 180
gaggccaaac cctggtacaa gctcat 206

<210> 9
<211> 511
<212> DNA
<213> Artificial Sequence

<220>
<223> Lac2-511 PCR nonspecific target fragment

<400> 9
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caccatcaa cagtattatt ttctcccatg aagacggtag gcgactgggc gtggagcatc 180
tggtcgcatt gggtcaccag caaatcgcg cgttagcggg cccattaagt tctgtctcgg 240
cgcgtctgcg tctggctggc tggcataaat atctcactcg caatcaaatt cagccgatag 300
cggaacggga aggcgactgg agtgccatgt ccggttttca acaaaccatg caaatgctga 360
atgagggcat cgttcccact gcgatgctgg ttgccaacga tcagatggcg ctgggcgcaa 420

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<210> 10
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<212> DNA
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<220>
<223> Primer

<400> 10
gagtccaacc ctgggccctt cttcttc 27

<210> 11
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 11
atgagcttgt accagggttt ggc 23

<210> 12
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 12
atactgcaga acgcgtcagt gggctgatca 30

<210> 13
<211> 35
<212> DNA
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<220>
<223> Primer

<400> 13
acagaattcc atgagctgtc ttcggtatcg tcgta 35

<210> 14
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Peptide nucleic acid probe JBP2C

<220>
<221> misc_feature
<222> (1)..(16)
<223> Nucleotide bases are joined by peptide bonds instead of
phosphodiester bonds

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<400> 14
tccgtgtttt gttgac 16

<210> 15
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Modified Peptide Nucleic Acid Probe JBP2BC

<220>
<221> modified_base
<222> (1)..(1)
<223> Biotinylated

<220>
<221> misc_feature
<222> (1)..(16)
<223> Nucleotide bases are joined by peptide bonds instead of phosphodiester bonds

<220>
<221> modified_base
<222> (16)..(16)
<223> Cysteine residue

<400> 15
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<210> 16
<211> 206
<212> DNA
<213> Artificial Sequence

<220>
<223> Compliment of PCR product JB

<400> 16
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gccagttcct caaatgcaga caccaaccgg ttaaagtcgg gtccgtgttt tgttgacatg 120
tcctcctgca tctggttgat ggtttcaacc aacttggaaa aatttgacct aacgtcagag 180
aagaagaagg gcccagggtt ggactc 206

<210> 17
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Modified fluorescein-labeled oligonucleotide probe JBP S2SP3F

<220>
<221> modified_base
<222> (1)..(1)
<223> C6-S-S-(Sp)₂, where C6-S-S is 1-O-dimethoxytritylhexyl-disulfide, 1-[(2-cyanoethyl)-(N,N-diisopropyl)]-phosphoramidite, and Sp is the spacer 18-O-dimethoxytritylhexaethyleneglycol, 1-[(2-cyanoethyl)-(N,N-diisopropyl)]-phosphoramidite

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<220>

<221> modified_base

<222> (48)..(48)

<223> Fluorescein labeled

<400> 17

tcaaccagat gcaggaggac atgtcaacaa aacacggacc cgacttaa

48